Application No. 10/675,004
Amendment Dated: April 18, 2007
Reply to Office Action of: January 16, 2007

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled)

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Canceled)

6. (Canceled)

7. (Canceled)

8. (Currently Amended) A method for obtaining an ~~isolate~~ Isolated or purified culture of a dinoflagellate ~~having a purity X~~, said method comprising selecting one or more dinoflagellate cells from a sample, placing said dinoflagellate cell or cells in a growth medium containing mimosine or ~~a toxic degradative product thereof~~ 3,4-dihydroxypyridine at a concentration of from 0.001 mM to 50 mM, culturing the mixture

thus obtained in an incubator until cell multiplication of the dinoflagellate is evident thereby obtaining an enriched culture and, if necessary, transferring the enriched culture to fresh medium containing mimosine or ~~a toxic degradative product thereof~~ 3,4-dihydroxypyridine and repeating the sub-culturing of said enriched culture, until an ~~isolate~~ Isolated or purified culture of the ~~purity X of the~~ dinoflagellate is obtained.

9. (Canceled)

10. (Canceled)

11. (Currently Amended) The method of claim 8, wherein mimosine or ~~a toxic degradative product thereof~~ 3,4-dihydroxypyridine, is present in said growth medium at a concentration of from 0.01 mM to 20 mM.

12. (Currently Amended) The method of claim 8, wherein mimosine or ~~a toxic degradative product thereof~~ 3,4-dihydroxypyridine, is present in said growth medium at a concentration of from 0.1 mM to 10 mM.

13. (Currently Amended) The method of claim 8, wherein mimosine or ~~a toxic degradative product thereof~~ 3,4-dihydroxypyridine, is present in said growth medium at a concentration of from 1 to 5 mM.

14. (Original) The method of claim 8, wherein from 1 to 3 rounds of transfer and sub-culturing of the desired dinoflagellate are performed.

15. (Currently Amended) The method of claim 8, wherein ~~each round of sub-culturing from said transfer to the point where cell multiplication of the desired dinoflagellate is evident is~~ culturing the mixture in an incubator until cell multiplication of the dinoflagellate is evident takes from 3 to 10 days.

16. (Currently Amended) The method of claim 8, wherein ~~each round of sub-culturing from said transfer to the point where cell multiplication of the desired dinoflagellate is evident is~~ culturing the mixture in an incubator until cell multiplication of the dinoflagellate is evident takes from 4 to 7 days.

17. (Currently Amended) A method for isolating one or more cells of a dinoflagellate from a natural aquatic sample, said method comprising adding mimosine or 3,4-dihydroxypyridine to a natural aquatic sample comprising one or more dinoflagellate cells at a concentration of from 0.001 mM to 50 mM, incubating the mixture thus obtained until cell multiplication of the desired dinoflagellate is evident, and isolating therefrom one or more cells of the desired dinoflagellate.

18. (Currently Amended) A method for obtaining an ~~isolate~~ isolated or purified culture of a dinoflagellate from a natural aquatic sample, said method comprising adding

mimosine or ~~a toxic degradative product thereof~~ 3,4-dihydroxypyridine to a natural aquatic sample comprising one or more dinoflagellate cells at a concentration of from 0.001 mM to 50 mM, incubating the mixture thus obtained until cell multiplication of the desired dinoflagellate is evident, isolating therefrom one or more cells of the desired dinoflagellate, transferring said one or more cells to a growth medium containing mimosine or ~~a toxic degradative product thereof~~ 3,4-dihydroxypyridine at a concentration of from 0.001 mM to 50 mM, incubating the mixture thus obtained until cell multiplication of the desired dinoflagellate is evident and, if necessary, transferring the enriched culture to fresh medium containing mimosine or ~~a toxic degradative product thereof~~ 3,4-dihydroxypyridine and repeating the sub-culturing of said enriched culture, until an ~~isolate~~ isolated or purified culture of the required purity of the desired dinoflagellate is obtained.

19. (Canceled)

20. (Canceled)

21. (Currently Amended) The method of claim 18, wherein mimosine or ~~a toxic degradative product thereof~~ 3,4-dihydroxypyridine, is present in said natural aquatic sample and said growth medium at a concentration of from 0.01 mM to 20 mM.

22. (Currently Amended) The method of claim 18, wherein mimosine or ~~a toxic degradative product thereof~~ 3,4-dihydroxypyridine, is present in said natural aquatic sample and said growth medium at a concentration of from 0.1 mM to 10 mM.

23. (Currently Amended) The method of claim 18, wherein mimosine or ~~a toxic degradative product thereof~~ 3,4-dihydroxypyridine, is present in said natural aquatic sample and said growth medium at a concentration of from 1 to 5 mM.

24. (Original) The method of claim 18, wherein from 1 to 3 rounds of transfer and sub-culturing of the desired dinoflagellate are performed.

25. (Original) The method of claim 18, wherein each round of sub-culturing from said transfer to the point where cell multiplication of the desired dinoflagellate is evident is from 3 to 10 days.

26. (Original) The method of claim 18, wherein each round of sub-culturing from said transfer to the point where cell multiplication of the desired dinoflagellate is evident is from 4 to 7 days.

27. (Canceled)

28. (Canceled)

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29. (Canceled)

30. (Canceled)

31. (Canceled)

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37. (Canceled).

38. (Canceled)

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41. (Canceled)

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50. (Canceled)

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51. (Canceled)

52. (Canceled)

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54. (Canceled)

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56. (Canceled)

57. (Canceled)

58. (Canceled)

59. (Canceled)